

TENT COOPERATION TRE Y

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

KONINKLIJKE KPN N.V.
Maanplein 5
NL-2595 AL The Hague
PAYS-BAS

| | |
|---|--|
| Date of mailing (day/month/year) 23 June 2000 (23.06.00) | IMPORTANT NOTIFICATION |
| Applicant's or agent's file reference 63624 | |
| International application No. PCT/NL99/00258 | International filing date (day/month/year) 29 April 1999 (29.04.99) |

1. The following indications appeared on record concerning:

☐ the applicant

 ☐ the inventor

 ☒ the agent

 ☐ the common representative

Name and Address

LIPS, H.J.G.
Breitnerlaan 146
NL-2596 HG The Hague
Netherlands

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person

 ☐ the name

 ☐ the address

 ☐ the nationality

 ☐ the residence

Name and Address

KONINKLIJKE KPN N.V.
Maanplein 5
NL-2595 AL The Hague
Netherlands

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

The agent in Box 1. has renounced his appointment. Please send all further correspondence to the address in Box 2.

4. A copy of this notification has been sent to:

| | |
|---|---|
| <input checked="" type="checkbox"/> the receiving Office | <input type="checkbox"/> the designated Offices concerned |
| <input type="checkbox"/> the International Searching Authority | <input checked="" type="checkbox"/> the elected Offices concerned |
| <input checked="" type="checkbox"/> the International Preliminary Examining Authority | <input type="checkbox"/> other: |

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

C. Cupello

Telephone No.: (41-22) 338.83.38

PCT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

| | |
|---|--|
| Date of mailing (day/month/year) 07 February 2000 (07.02.00) | |
| International application No. PCT/NL99/00258 | Applicant's or agent's file reference 63624 |
| International filing date (day/month/year) 29 April 1999 (29.04.99) | Priority date (day/month/year) 02 June 1998 (02.06.98) |
| Applicant VAN TOL, Alphonsus, Johannes | |

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
03 December 1999 (03.12.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

| | |
|--|--|
| <p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No.: (41-22) 740.14.35</p> | <p>Authorized officer Claudio Borton</p> <p>Telephone No.: (41-22) 338.83.38</p> |
|--|--|

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

To:

H.J.G. LIPS c.s.
Haagsch Octrooibureau
Breitnerlaan 146
2596 HG Den Haag
NETHERLANDS

Date of mailing
(day/month/year)

12/08/1999

Applicant's or agent's file reference
63624

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/NL 99/ 00258

International filing date
(day/month/year) 29/04/1999

Applicant

TELEMATICA HOLDINGS LTD. et al.

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Grace Casuga

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--|---|--|
| Applicant's or agent's file reference 63624 | FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. | |
| International application No. PCT/NL 99/ 00258 | International filing date (day/month/year) 29/04/1999 | (Earliest) Priority Date (day/month/year) 02/06/1998 |
| Applicant TELEMATICA HOLDINGS LTD. et al. | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

SYSTEM FOR ESTABLISHING A PERMANENT INTERNET CONNECTION

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

National Application No

PCT/NL 99/00258

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04M3/42 H04M3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04M H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | ORLAMUENDER H ET AL: "HANDLING INTERNET TRAFFIC IN TELECOMMUNICATIONS NETWORKS" ISS '97. WORLD TELECOMMUNICATIONS CONGRESS. (INTERNATIONAL SWITCHING SYMPOSIUM), GLOBAL NETWORK EVOLUTION: CONVERGENCE OR COLLISION? TORONTO, SEPT. 21 - 26, 1997, vol. 1, 21 September 1997 (1997-09-21), pages 579-586, XP000720566 | 1-3 |
| A | ABE S ET AL the whole document --- -/-- | 4 |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

4 August 1999

Date of mailing of the international search report

12/08/1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Megalou, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 99/00258

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | SCHOEN U ET AL: "CONVERGENCE BETWEEN PUBLIC SWITCHING AND THE INTERNET" IEEE COMMUNICATIONS MAGAZINE, vol. 36, no. 1, January 1988 (1988-01), pages 50-58, 63 - 65, XP000739153 | 1 |
| A | page 51, right-hand column, line 4 - page 56, right-hand column, line 6 --- | 2-4 |
| X | WO 97 50230 A (ERICSSON GE MOBILE INC) 31 December 1997 (1997-12-31) abstract figures 3-6 --- | 1,2 |
| A | MAW T ET AL: "THE PUBLIC SWITCHED TELEPHONE NETWORK AND THE INTERNET MEET" CANADIAN CONFERENCE ON ELECTRICAL AND COMPUTER ENGINEERING, 1997, pages 892-895, XP000775500 the whole document --- | 1-4 |
| A | CARBONE P: "INTERNET THRUWAY: A PROFITABLE NEW ROUTE FOR DATA TRAFFIC" TELESIS, no. 102, December 1996 (1996-12), pages 6-15, XP002073917 the whole document --- | 1-4 |
| A | EP 0 802 690 A (SIEMENS AG) 22 October 1997 (1997-10-22) the whole document ----- | 1-4 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NL 99/00258

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|------------------------------|--------------------------|
| WO 9750230 | A | 31-12-1997 | AU 3577097 A EP 0909500 A | 14-01-1998 21-04-1999 |
| EP 0802690 | A | 22-10-1997 | NONE | |

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

Koninklijke KPN N.V.
Maanplein 5
2595 Al The Hague
PAYS-BAS

ATTN. Nancy TUNG.

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year) 10.10.2000

Applicant's or agent's file reference
63624

IMPORTANT NOTIFICATION

International application No.
PCT/NL99/00258

International filing date (day/month/year)
29/04/1999

Priority date (day/month/year)
02/06/1998

Applicant
KONINKLIJKE KPN N.V. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/



European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer

Le Nadan, M

Tel. +49 89 2399-2350





PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| | | | |
|--|---|---|--|
| Applicant's or agent's file reference 63624 | | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | |
| International application No. PCT/NL99/00258 | International filing date (day/month/year) 29/04/1999 | Priority date (day/month/year) 02/06/1998 | |
| International Patent Classification (IPC) or national classification and IPC H04M3/42 | | | |
| Applicant KONINKLIJKE KPN N.V. et al. | | | |
| <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 7 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 2 sheets.</p> | | | |
| <p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input checked="" type="checkbox"/> Certain defects in the international application VIII <input checked="" type="checkbox"/> Certain observations on the International application | | | |
| Date of submission of the demand 03/12/1999 | | Date of completion of this report 10.10.2000 | |
| Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | Authorized officer Teiwes, J Telephone No. +49 89 2399 7504  | |

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/NL99/00258

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-4 as originally filed

Claims, No.:

1-4 as received on 08/09/2000 with letter of 05/09/2000

Drawings, sheets:

1/1 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/NL99/00258

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

| | | |
|-------------------------------|------|------------|
| Novelty (N) | Yes: | Claims 1-3 |
| | No: | Claims 4 |
| Inventive step (IS) | Yes: | Claims |
| | No: | Claims 1-4 |
| Industrial applicability (IA) | Yes: | Claims 1-4 |
| | No: | Claims |

2. Citations and explanations**see separate sheet****VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

see separate sheet**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/NL99/00258

EXAMINATION REPORT - SEPARATE SHEET

Re Item V**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

- 1 The subject matter of independent claim 1 does not involve an inventive step, Articles 33(1) and (3) PCT, in view of D1 and usual design practice.
- 1.1 The present broad and unclear (see Item VIII 1) formulation of independent system claim 1 is such that the relevant aspects of its subject matter can be read onto prior art document D1, which relates to a system for establishing a connection between the Internet and a user (page 581, figure 2).

In particular, document D1 discloses a switching PoP with input lines, said lines being connected to a connection at a subscriber, said subscriber being connected through said connection, the input lines and the switching PoP to an Internet Service Provider on the basis of some PoP controlling means (page 581, left hand column in 3.2.1: "The new proposal must allow ... is to pool this function." and "In principle the POP function ... or even a flat rate."; figure 2).

- 1.2 The subject matter of claim 1 differs from D1 in that a PoP manager is explicitly mentioned. However, even if such a manager is not explicitly cited in D1, it is clear, that there must exist a similar means for controlling a PoP for example the PoP of figure 2 on page 581.

The subject matter of claim 1 further differs from D1 in that the term "permanent connection" is not used in D1. However, even if not indicated as "permanent" the type of connection of D1 has the same properties.

Therefore, these differences are just a matter of common design practice not involving any inventive merit.

- 1.3 It should be noted that objections related to inventive step with respect to claim 1 could have alternatively been raised on the basis of document D2 (page 9, line 18-20; page 25, line 9-13; fig.3).

The only difference between the two presented systems is that the PoP functionality is totally separated from the exchange in the application.

INTERNATIONAL PRELIMINARY

International application No. PCT/NL99/00258

EXAMINATION REPORT - SEPARATE SHEET

However, this difference is only an implementation measure and does, therefore, not involve anything inventive (Articles 33(1) and (3) PCT).

- 1.4 The additional features of dependent claims 2-3 are either disclosed by D2 (claim 2 see D2, p.2, l.40-44; fig.3, obj.54, 58(1)-58(n)) (claim 3 see D2, p.10, l.20-26; fig.3, obj.64, 58(1)-58(n),60) or seem to be implementation measures not involving any special technical effect. Hence, the additional features of said claims do either not add anything inventive to claim 1.
- 2 There are no structural features mentioned in claim 4 which belong to the claimed PoP (see Item VIII 3). Hence claim 4 does not disclose anything more than D1. Claim 4 is, therefore, not novel.

Re Item VII**Certain defects in the international application**

- 1 In order to fulfil the requirements of Rule 5.1(a)(ii) PCT, documents D1 and D2 should have been identified in the description and the relevant background art disclosed therein should have been briefly discussed.
- 2 The description should have been brought into conformity with the claims filed, Rule 5.1(a)(iii) PCT.

Re Item VIII**Certain observations on the international application**

- 1 Claim 1 lacks clarity because the wording "... a switching PoP having incoming lines (1)..." seems to indicate that said "*incoming lines (1)*" are directly connected to the PoP contrary to what is said in the description (page 2, line 31-34) (Article 6 PCT).

Further the wording "... and are permanently connected to a connection at a

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/NL99/00258

subscriber." does not make unambiguously clear how the term "*permanently*" should be interpreted (Article 6 PCT).

The term "*inputs (7)*" of claim 1 is not clear (Article 6 PCT). It should have been for example "*input lines (7) of the PoP*".

Further it is not clear how inputs (7) are arranged within the system, e.g. which structural elements of the system they are connecting (Article 6 PCT).

Additionally it is not clear if inputs (7) are those of the incoming lines (1) which are bypassing the exchange (3) and which are connecting the main distributor (2) and the multiplexing equipment (6) in fig.1 or if inputs (7) are the multiplexed lines connecting the multiplexing equipment (6) with the PoP having the reference sign (7) in fig.1 (Article 6 PCT).

- 2 There is a lack of antecedence in claim 1 with "the telephone exchange" because the definite article indicates that said feature has been mentioned before. But there is no other part in said claim mentioning said feature. Hence, it seems that some information is missing in the claim which renders the claim's subject matter unclear (Article 6 PCT).
- 3 Claim 4 does not meet the requirements of Article 6 PCT, since the category of said claims is not clear. According to the PCT only two basic kinds of claims exist, viz, claims to a physical entity (apparatus) and claims to an activity (method) (cf. PCT-Guidelines C-III-3.1).

From the wording of claim 4 "Switching PoP for use with the system...", said claim could either be interpreted as an apparatus claim for a "Switching PoP" or as a use (method) claim for "the use of a switching PoP in a system...".

However, the claim does not contain means or structural features of a "Switching PoP". Hence, an **apparatus** is not defined.

Further, the **use** of said apparatus is not clear because the apparatus is not defined.

In view of the differences in the scope of protection which may be attached to the

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**International application No. **PCT/NL99/00258**

various categories of claims, the wording of said independent claim should leave no doubt as to its category (Article 6 PCT and PCT-Guidelines C-III-4.1).

- 4 There has been received a substitute sheet with a new figure from the Applicant according to Rule 26 PCT on the 28 of May 1999 without an accompanied letter referencing that sheet. Additionally there is no reference to that sheet in the description. There is no figure numbering on that sheet. The sheet number is 1/1. This sheet numbering is incompatible with the drawing sheet showing figures 1 and 2 of the application as originally filed which has no sheet numbering and therefore has the sheet number 1/1 by default. And the two sheet do not show similar figures.

The application was examined on the basis of the drawing sheet as originally filed showing figures 1 and 2. The new drawing sheet received on the 28 of May 1999 is annexed to this report.

08-09-2000

PCT/NL99/00258

1

AMENDED CLAIMS

1. System for establishing a permanent connection between the Internet and a user subscribed to the internet, said system comprising a switching PoP (4) 5 having incoming lines (1) through which switched telephone traffic enters, characterised in that said system further comprises a PoP manager (8), and inputs (7) which are not connected to the telephone exchange (3) and which are permanently connected to a connection at a subscriber, said 10 subscriber being connected through said connection, inputs (7) and switching PoP (4) to an ISP on the basis of an instruction from the PoP manager (8).

2. System according to claim 1, characterised in that the inputs (7) of the PoP (4) not 15 being connected to the telephone exchange (3) can be executed as two-wire connections in such a way that the subscriber is directly connected to the switching PoP (4) and is switched on the basis of an instruction of the PoP manager (8).

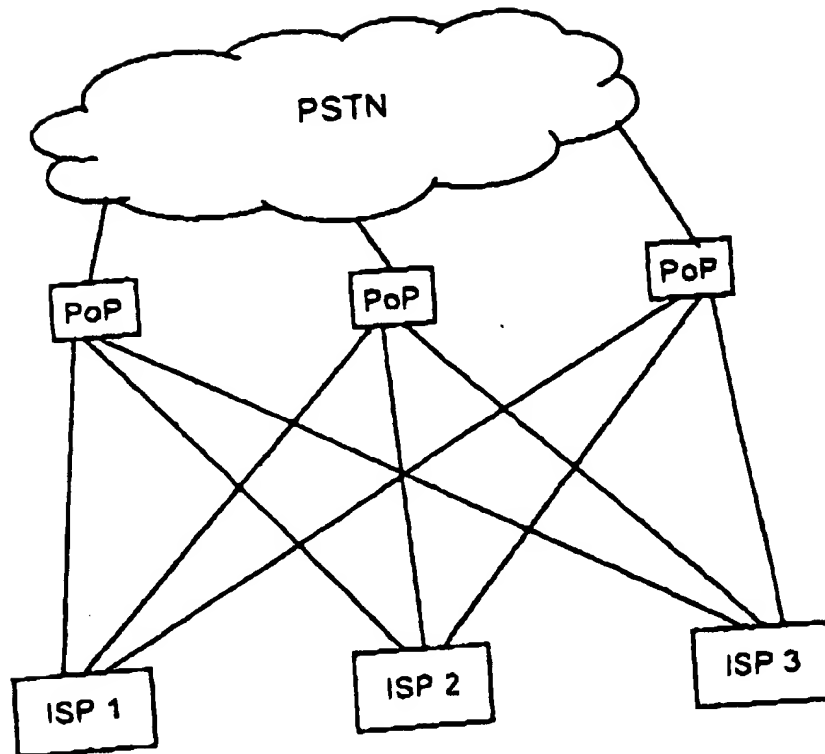
20 3. System according to claim 1, characterised in that standard multiplexing equipment (6) is employed, to which the subscriber is connected by a two-wire connection, said multiplexing equipment being connected to said switching PoP (4) and is switched on the 25 basis of an instruction of the PoP manager (8).

4. Switching PoP for use with the system according to one of the preceding claims, characterised in that the PoP (4) is switchable by a PoP manager (8) at a distance.

PCT/NL 9 / 00 2 58

28.05.99

1/1



PCT

To: Mr. Ir. H.J.G. Lips
HAAGSCH OCTROOBUREAU
Breitnerlaan 146
2596 HG Den Haag

**NOTIFICATION OF THE INTERNATIONAL
APPLICATION NUMBER AND OF THE
INTERNATIONAL FILING DATE**

(PCT Rule 20.5(c))

Date of mailing (day/month/year)
12 May 1999 (12.05.99)

Applicant's or agent's file reference
63624

IMPORTANT NOTIFICATION

International application No.
PCT/NL99/00258

International filing date (day/month/year)
29 April 1999 (29.04.99)

Priority date (day/month/year)
02 June 1998 (02.06.98)

Applicant

Telematica Holdings Ltd. et al

Title of the invention

Stelsel voor het tot stand brengen van een permanente internet verbinding

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the international application:

- ☒ was transmitted to the International Bureau on 21 May 1999 (21.05.99)
- ☐ has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau *:

☐ because the necessary national security clearance has not yet been obtained.

☐ because (reason to be specified):

* The international Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c))

Name and mailing address of the receiving Office
Bureau voor de Industriële Eigendom
P.O. Box 5820
2280 HV Rijswijk
The Netherlands

Facsimile No. +31703986507

Authorized officer

R. Knoester

Telephone No. +31703986548

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority must be indicated by the applicant on the line below:

IPEA/

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA

Date of receipt of DEMAND

| | | |
|--|--|---|
| Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION | | Applicant's or agent's file reference 63624 |
| International application No. PCT/NL99/00258 | International filing date (day/month/year) 29-04-1999 | (Earliest) Priority date (day/month/year) 02-06-1998 |

Title of invention

System for establishing internet connection.

Box No. II APPLICANT(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Telematica Holdings Ltd.
3 L.B. Smith Plein, Willemstad, Curaçao
Netherlands Antilles

Telephone No.:

Facsimile No.:

Teleprinter No.:

State (that is, country) of nationality:
The Netherlands (NL)

State (that is, country) of residence:
Netherlands Antilles

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

VAN TOL, Alphonsus Johannes
Holtenberg 9
2402 ZA Alphen a/d Rijn
The Netherlands

State (that is, country) of nationality:
The Netherlands (NL)

State (that is, country) of residence:
The Netherlands

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

State (that is, country) of nationality:

State (that is, country) of residence:



Further applicants are indicated on a continuation sheet.

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The following person is ☒ agent ☐ common representative
 and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.
☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.
☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

Ir. H.J.G. Lips c.s.
 HAAGSCH OCTROOIBUREAU
 Breitnerlaan 146
 2596 HG Den Haag
 The Netherlands

Telephone No.:

070-3244463

Facsimile No.:

070-3280814

Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION**Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filed

the description ☐ as originally filed
☐ as amended under Article 34

the claims ☐ as originally filed
☐ as amended under Article 19 (together with any accompanying statement)
☐ as amended under Article 34

the drawings ☐ as originally filed
☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.

3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English

☒ which is the language in which the international application was filed.

☐ which is the language of a translation furnished for the purposes of international search.

☐ which is the language of publication of the international application.

☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

Box No. V ELECTION OF STATES

The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:

Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- | | | |
|--|---|--------|
| 1. translation of international application | : | sheets |
| 2. amendments under Article 34 | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19 | : | sheets |
| 5. letter | : | sheets |
| 6. other (specify) | : | sheets |

For International Preliminary
Examining Authority use only

received not received

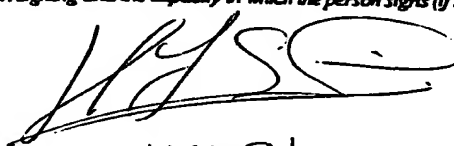
| | |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
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| <input type="checkbox"/> | <input type="checkbox"/> |

The demand is also accompanied by the item(s) marked below:

- | | |
|--|---|
| 1. <input type="checkbox"/> fee calculation sheet | 4. <input type="checkbox"/> statement explaining lack of signature |
| 2. <input checked="" type="checkbox"/> separate signed power of attorney copy | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other (specify): |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).


Ir. H.Y.G. Lips
~~drs. F.G. Blaauw~~

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

REQUEST

14. 08. 99

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

Receiving Office use only

PCT/NL 99 / 00258
International Application No.

29 APR 1999

International Filing Date

29. 04. 99

BUREAU VOOR DE INDUSTRIËLE EIGENDOM
P.C.T. INTERNATIONAL APPLICATION
Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 63624

Box No. I TITLE OF INVENTION

[System for establishing a permanent Internet connection.]

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Telematica Holdings Ltd.
3 L.B. Smith Plein
Willemstad, Curaçao
Netherlands Antilles

☐ This person is also inventor.

Telephone No.

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:

NL

State (that is, country) of residence:

AN

This person is applicant
for the purposes of:

☐

all designated States

☒

all designated States except the United States of America

☐

the United States of America only

☐

the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

van Tol, Alphonsus Johannes
Holtenberg 9
2402 ZA Alphen a/d Rijn
The Netherlands

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant
for the purposes of:

☐

all designated States

☐

all designated States except the United States of America

☒

the United States of America only

☐

the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☐

agent

☐

common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Ir. H.J.G. Lips c.s.,
Breitnerlaan 146
2596 HG The Hague
The Netherlands

Telephone No.

070-3244463

Facsimile No.

070-3280814

Teleprinter No.

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

The following designations are hereby made under Rule 4.9(a) (mark the applicable boxes; at least one must be marked):

Regional Patent

- ☒ AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|--|--|
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> LS Lesotho |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> LT Lithuania |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> LU Luxembourg |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> LV Larvia |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BG Bulgaria | |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> GD Grenada | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> GH Ghana | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> IN India | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> IS Iceland | |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | <input checked="" type="checkbox"/> ZW Zimbabwe |
| | |
| <input checked="" type="checkbox"/> KR Republic of Korea | |
| <input checked="" type="checkbox"/> KZ Kazakhstan | |
| <input checked="" type="checkbox"/> LC Saint Lucia | |
| <input checked="" type="checkbox"/> LK Sri Lanka | |
| <input checked="" type="checkbox"/> LR Liberia | |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

- ☒ United Arab Emirates
- ☒ Grenada
- ☒ South Africa
- ☒ Kroatie
- ☒ Mozambique
- ☒ India

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

1B.
see
page
7

| | | | | |
|---|-------------------------------|--|--|--|
| Box No. VI PRIOR CLAIM | | <input type="checkbox"/> Further priority claims are indicated in the Supplemental Box. | | |
| Filing date of earlier application (day/month/year) | Number of earlier application | Are earlier application is: national application: country regional application: regional Office international application: receiving Office | | |
| item (1) <i>01.06.98</i> June 2, 1998 | 1009297 | The Netherlands | | |
| item (2) | | | | |
| item (3) | | | | |

☒ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):

* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

| | |
|---|--|
| Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / The Netherlands | Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): Date (day/month/year) Number Country (or regional Office) Sept. 17, 1998 SN 31582 The Netherlands |
|---|--|

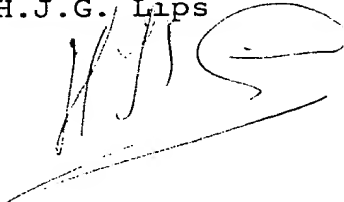
Box No. VIII CHECK LIST: LANGUAGE OF FILING

| | |
|--|--|
| This international application contains the following number of sheets: request : 3 description (excluding sequence listing part) : 4 claims : 1 abstract : 1 drawings : 1 sequence listing part of description : Total number of sheets : 10 | This international application is accompanied by the item(s) marked below: 1. <input checked="" type="checkbox"/> fee calculation sheet to follow 2. <input checked="" type="checkbox"/> separate signed power of attorney to follow 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: 4. <input type="checkbox"/> statement explaining lack of signature 5. <input checked="" type="checkbox"/> priority document(s) identified in Box No. VI as item(s): English translation 6. <input type="checkbox"/> translation of international application into (language): to follow 7. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material 8. <input type="checkbox"/> nucleotide and/or amino acid sequence listing in computer readable form 9. <input checked="" type="checkbox"/> other (specify): English translation of the application to follow |
| Figure of the drawings which should accompany the abstract: | Language of filing of the international application: English |

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Ir. H.J.G. Lips

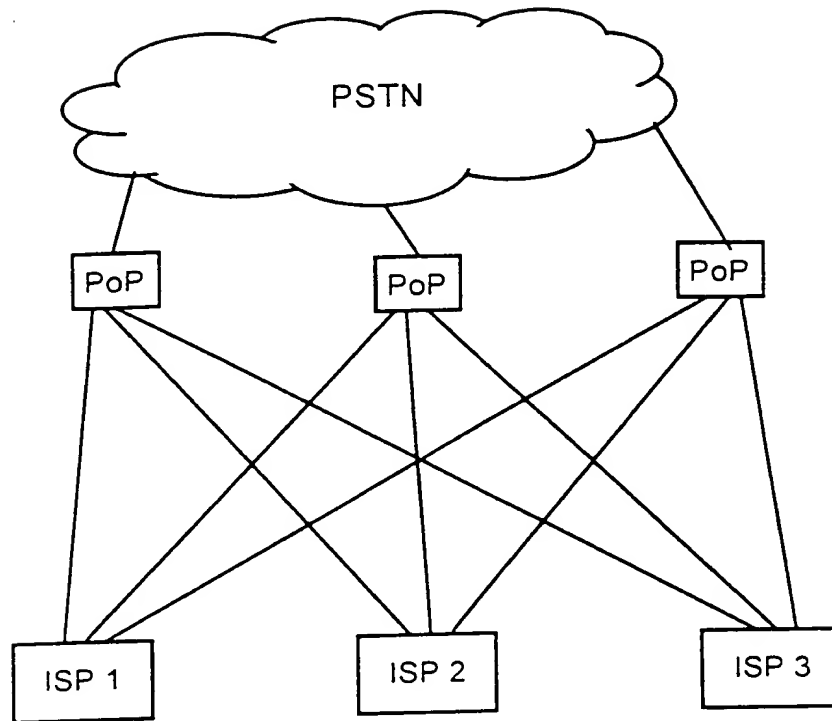


| | | |
|---|--|---|
| For receiving Office use only | | 2. Drawings: |
| 1. Date of actual receipt of the purported international application: | 29 APR 1999 (29.04.99) | <input checked="" type="checkbox"/> received: |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: | | <input type="checkbox"/> not received: |
| 4. Date of timely receipt of the required corrections under PCT Article 11(2): | | |
| 5. International Searching Authority (if two or more are competent): ISA / | 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid. | |

| | |
|---|-------------------------|
| For International Bureau use only | |
| Date of receipt of the record copy by the International Bureau: | 01 JUNE 1999 (01.06.99) |

28.05.99

1/1



Stelsel voor het tot stand brengen van een permanente internet-verbinding.

De uitvinding heeft betrekking op een stelsel voor het tot stand brengen van een permanente verbinding tussen het internet en een daarop geabonneerde gebruiker ervan.

Met de popularisering van het internet groeit ook bij een deel van het publiek de wens over een permanente internet-verbinding te beschikken.

De xDSL-technieken kunnen dit bieden maar zijn vooralsnog kostbaar. Daarnaast zijn er kabel-operators die via hun netwerk onbeperkte toegang bieden. Het openbare telefoonnet is echter niet goed ingericht voor het leveren van een permanente verbinding.

De uitvinding beoogt nu dit bezwaar op te heffen en het voor de bestaande telecom-operators mogelijk te maken om tegen redelijke kosten permanent toegang tot het internet te verschaffen.

Volgens de uitvinding wordt er daartoe in voorzien dat gebruik wordt gemaakt van een schakelende PoP waarbij naast de lijnen via welke geschakeld telefoonverkeer binnenkomt er niet op de telefooncentrale aangesloten lijnen zijn die permanent zijn verbonden met een aansluiting bij een abonnee.

Het toepassen van een schakelende PoP is beschreven in de niet voor-gepubliceerde octrooiaanvraag NL 1009083. Dergelijke schakelende PoP's kunnen worden beheerd door een Internet Access Operator, dan wel door de PSTN-operator, waarbij PSTN staat voor Public Switched Telephony Network of wel het openbare telefoonnet. De PoP's kunnen worden geplaatst op het niveau van de grotere nummercentrales. Op het niveau daarboven, de verkeerscentrales, worden deze PoP's uitsluitend gehandhaafd voor de volgende gevallen:

- a) de nummercentrale is te klein om een eigen PoP rendabel te doen zijn;
- b) de nummercentrale ondersteunt het protocol voor de koppeling van de PoP niet: en
- c) bij grote vraag per nummercentrale wordt overgelopen naar de bovenliggende verkeerscentrale.

Volgens een uitwerking van de uitvinding kunnen de niet op de telefooncentrale aangesloten ingangen van de PoP zijn uitgevoerd als tweedraads aansluitingen zodanig dat de abonnee rechtstreeks is aangesloten op de PoP.

- 5 Ook bestaat de mogelijkheid gebruik te maken van standaard multiplex-apparatuur, waarop de abonnee door een tweedraads aansluiting is aangesloten, welke multiplex-apparatuur is verbonden met de schakelende PoP en geschakeld wordt op basis van een opdracht uit de PoP-manager.

De uitvinding verschaft dus tevens een schakelende PoP met zodanige functionaliteit dat de ISP - Internet Service Provider - van bestemming voor sommige inkomende lijnen niet wordt bepaald door het nummer waarmee wordt ingebeld
5 maar op afstand wordt ingesteld door de PoP-manager.

Een PoP-manager is een PC direct naast de PoP of op afstand daarvan, die een aantal PoP's bestuurt en de volgende functies uitvoert:

- 10 a) configuratie-management: het beheer van de tabellen voor de omzetting van telefoonnummers naar IP-adressen;
- b) fout-management: het melden en registreren van fouten in de verbindingen naar het PSTN en naar de ISP's;
- c) performance-management: het bijhouden van de belasting van de PoP's om de capaciteit tijdig te vergroten; en
- 15 d) accounting management: het registreren van het gebruik van de PoP uitgesplitst per ISP ten einde de kosten naar evenredigheid te kunnen doorbelasten.

De uitvinding wordt nader toegelicht aan de hand van de tekening, waarin de figuren 1 en 2 elk een schema tonen
20 van een uitvoerings-mogelijkheid.

In fig. 1 zijn met 1 de lijnen aangegeven die vanuit het centrale gebied, dus vanaf de abonnees, binnenkomen bij de hoofdverdelers 2. De lijnen worden vanuit de hoofdverdelers 2 doorverbonden naar een ingang op de telefooncentrale
25 3. Wanneer nu een abonnee een internet-oproep doet, wordt hij door de telefooncentrale 3 doorgeschakeld naar de PoP 4, die het verkeer op basis van de eindcijfers via het PSPDN 5 naar de juiste ISP doorleidt. Daarbij staat PSPDN voor Public Switched Packet Data Network.

30 De PoP 4 bezit ook een aantal ingangen 7 die kunnen

zijn uitgevoerd als tweedraads aansluitingen waarbij de abonnee direct op de PoP is aangesloten. Getoond is echter de mogelijkheid dat gebruik wordt gemaakt van standaard multiplex-apparatuur 6. Daar via de betreffende lijnen geen oproepen binnenkomen is het niet mogelijk deze te schakelen op basis van het binnenkomende telefoonnummer. Daarom worden deze lijnen geschakeld op basis van een opdracht uit de PoP-manager 8.

Een abonnee kan een permanente internet-verbinding krijgen door een aderpaar 1 vanaf zijn huisaansluiting via de hoofdverdeler 2 door te verbinden met een ingang van de multiplex-apparatuur 6. Voor de PSTN-operator betekent dit het permanent beschikbaar stellen van een aderpaar in het aansluitnet. Er is weliswaar in het algemeen sprake van schaarste in het aansluitnet, maar de vereiste capaciteit die nodig is voor deze permanente internet-verbinding is in de moderne netten wel beschikbaar.

In die gevallen dat er geen PoP is opgesteld bij de centrale waarop de abonnee is aangesloten, wordt de permanente internet-verbinding gerealiseerd door een vaste verbinding tussen nummercentrale en de eerst volgende verkeerscentrale.

Fig. 2 toont een schema dat uitgebreider is dan dat van fig. 1 maar waarin overeenkomstige delen met dezelfde verwijzings-cijfers zijn aangeduid.

De lijnen 1 vanaf de abonnees worden weer via de hoofdverdeler 2 doorverbonden met de multiplex-apparatuur 6, waarvan de uitgang nu gaat naar de 2Mb-verdeler 10. Via het transmissie-net 11 komt het signaal aan op de 2Mb-verdeler bij de verkeerscentrale 12. Vandaar vindt aansluiting plaats op de ingang 7 van de PoP 4.

In dit geval zijn de kosten voor de PSTN-operator een aderpaar in het aansluitnet en een 64 kb kanaal in de verbinding tussen nummercentrale en verkeerscentrale.

Bij deze opstelling met één PoP per grote nummercentrale en een PoP op elke verkeerscentrale is het aan te bevelen per regio een PoP-manager in te zetten. Daarbij is het van de organisatie van de Internet Access Operator afhankelijk hoe groot die regio's dienen te zijn en waar de

PoP-managers worden opgesteld.

Het zal duidelijk zijn, dat slechts enkele mogelijke uitvoeringsvormen van een stelsel volgens de uitvinding in de tekening zijn weergegeven en hierboven beschreven en dat
5 vele wijzigingen kunnen worden aangebracht zonder buiten de uitvindingsgedachte te vallen, zoals deze in bijgaande conclusies is aangegeven.

c o n c l u s i e s

C O N C L U S I E S

1. Stelsel voor het tot stand brengen van een permanente verbinding tussen het internet en een daarop geabonneerde gebruiker ervan, met het kenmerk, dat gebruik wordt gemaakt van een schakelende PoP (4) waarbij naast de binnenkomende lijnen (1) waarop geschakeld telefoonverkeer binnenkomt er niet op de telefooncentrale (3) aangesloten lijnen (7) zijn die permanent zijn verbonden met een aansluiting bij een abonnee.
2. Stelsel volgens conclusie 1, met het kenmerk, dat de niet op de telefooncentrale (3) aangesloten ingangen (7) van de PoP (4) zijn uitgevoerd als tweedraads aansluitingen zodanig dat de abonnee rechtstreeks is aangesloten op de schakelende PoP (4) en geschakeld wordt op basis van een opdracht uit de PoP-manager (8).
3. Stelsel volgens conclusie 1, met het kenmerk, dat gebruik wordt gemaakt van standaard multiplex-apparatuur (6), waarop de abonnee door een tweedraads aansluiting is aangesloten, welke multiplex-apparatuur is verbonden met de schakelende PoP (4) en geschakeld wordt op basis van een opdracht uit de PoP-manager (8).
4. Schakelende PoP voor toepassing bij het stelsel volgens een der voorgaande conclusies, met het kenmerk, dat de PoP (4) een zodanige functionaliteit bezit, dat de ISP - Internet Service Provider - van bestemming voor sommige inkomende lijnen niet wordt bepaald door het nummer waarmee wordt ingebeld maar op afstand wordt ingesteld door de PoP-manager (8).

U I T T R E K S E L

Stelsel voor het tot stand brengen van een permanente verbinding tussen het internet en een daarop geabonneerde gebruiker ervan. Daarbij wordt gebruik gemaakt van een schakelende PoP (4) waarbij naast de binnenkomende lijnen (1) waarop geschakeld telefoonverkeer binnenkomt er niet op de telefooncentrale (3) aangesloten lijnen (7) zijn die permanent zijn verbonden met een aansluiting bij een abonnee. De niet op de telefooncentrale (3) aangesloten ingangen (7) van de PoP (4) zijn uitgevoerd als tweedraads aansluitingen zodanig dat de abonnee rechtstreeks is aangesloten op de PoP (4). Ook kan gebruik worden gemaakt van standaard multiplex-apparatuur (6), waarop de abonnee door een tweedraads aansluiting is aangesloten, welke apparatuur is verbonden met de schakelende PoP (4) en geschakeld wordt op basis van een opdracht uit de PoP-manager (8).

Fig. 2.

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

Confirmation copy

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International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference

(if desired) (12 characters maximum) 63624

Box No. I TITLE OF INVENTION

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

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Willemstad, Curaçao,
Netherlands Antilles

B. v.d. I.E.

29 APR. 1999

☐ This person is also inventor.

Telephone No.

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☒ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

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The Netherlands

This person is:

☐ applicant only☐ applicant and inventor☒ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

The Netherlands

The Netherlands

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Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☐ agent☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

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Facsimile No.

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Teleprinter No.

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

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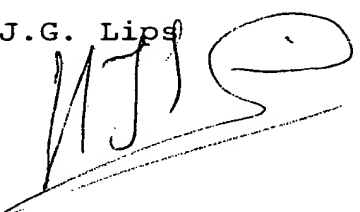
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|---|-------------------------------|---|---------------------------------------|---|
| Box No. VI PRIORITY CLAIM | | <input type="checkbox"/> Further priority claims are indicated in the Supplemental Box. | | |
| Filing date of earlier application (day/month/year) | Number of earlier application | Where earlier application is: | | |
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| item (1) June 2, 1998 | 1009297 | The Netherlands | | |
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